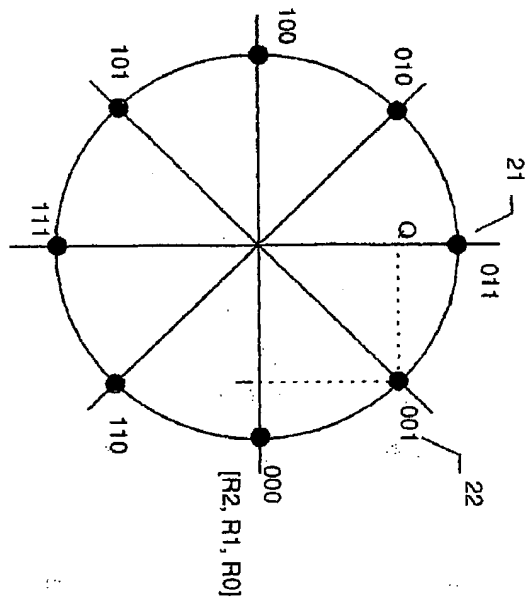


FIGURE 1. An UMTS Modem System Block Diagram, (Prior art)

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| Symbol | I       | Q       |
|--------|---------|---------|
| 000    | 1.0     | 0.0     |
| 001    | 0.7071  | 0.7071  |
| 010    | -0.7071 | 0.7071  |
| 011    | 0.0     | 1.0     |
| 100    | -1.0    | 0.0     |
| 101    | -0.7071 | -0.7071 |
| 110    | 0.7071  | -0.7071 |
| 111    | 0.0     | -1.0    |

FIGURE 3. An UMTS Modem Transmitter Functional Block Diagram

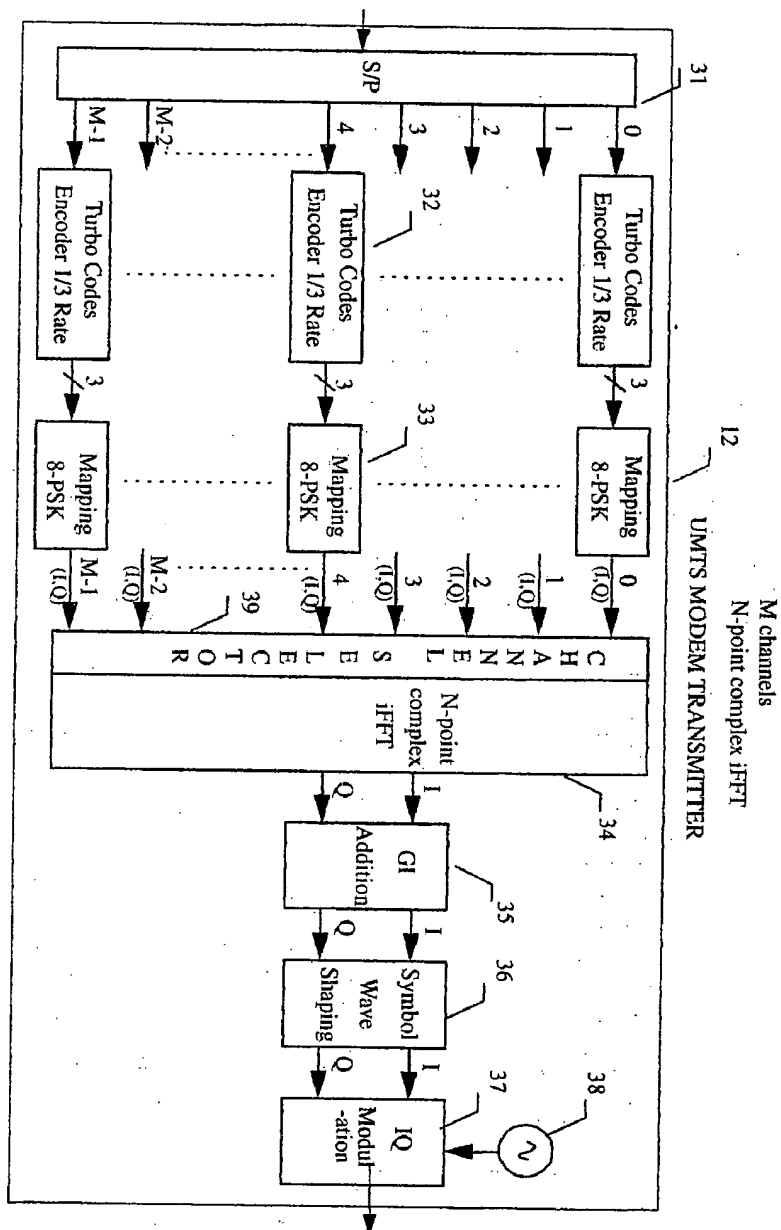


FIGURE 4. An UMTS Modem Receiver Functional Block Diagram

